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AIRPORT ENGINEERING Building Construction (A Basic Text Book for Engineering Students) Engineering Materials [Material Science] Building Construction RAILWAY ENGINEERING Principles of Railway Engineering Engineering Materials (Material Science). Building Construction Bridge Engineering Engineering Materials (A Basic Text-book for Engineering Students) Building Construction Bridge Engineering Water Supply And Sanitary Engineering Turbo-Machinery Dynamics Surveying and Levelling Building Construction : a Basic Textbook for Engineering Students Structural Dynamics of Turbo-Machines Surveying and Levelling (A Basic Text-book for Engineering Students) HIGHWAY ENGINEERING Concepts of Bridge Engineering Elements of Estimating and Costing Explosion Dynamics Irrigation and Water Power Reciprocating Machinery Dynamics Introduction to Protein Structure Prediction Structural Dynamics of Turbo-machines Elements of Estimating and Costing Building Materials Thermal Engineering Airport Engineering Building Construction Airport Engineering CONSTRUCTION OF STRUCTURES AND MANAGEMENT OF WORKS Building Construction, 28/re Building Construction and Materials VALUATION OF REAL PROPERTIES Civil Engineering Materials Basic Structural Analysis Basic Civil Engineering TOWN PLANNING

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This Text-book along with its companion volume II is designed to cover the entire syllabi of the subject of Thermal Engineering, which is inherent in the study of engineering students. The entire matter of the book is most comprehensive and presented in lucid language, with number of solved examples, neatly drawn sketches, so that the reader can understand the fundamentals of the subject easily. Number of exercises are given at end of appropriate sections as well as at the end of chapters. Exercises, subjective questions, objective type multiple choice questions are also included at the end of chapters. ABOUT THE BOOK: feel proud in issuing the Seventh Edition of the book "Building Construction and Materials". The subject " Building Construction and Materials" is a very vast and tedious subject of Civil Engineering. Author has tried to explain all the aspects of this subject in a very simple and lucid language. The Book is entirely in SI Units. The book covers the syllabi prescribed by all the Indian universities, State Technical Boards and A.M.I.E. (India) examinations. The book is also very useful for Engineers involved in construction industry. All the relevant I.S.I. Recommendations and other

useful data have been incorporated in the book. Author has tried to explain all the aspects with the help of lot of neat drawings. It is hoped that the book will satisfy all the needs of the students and practising engineers in regard to this subject. In order to increase the usefulness of the book basic engineering materials have been added in this revised 17th edition. Basic engineering material like stone, bricks, lime, cement, timber and iron has been added in this edition. **RECOMMENDATIONS:** A textbook for all Engineering Branches, Competitive Examination, ICS, and AMIE Examinations In S.I Units For Degree, Diploma and A.I.M.E. (India) Students and Practising Civil Engineers. **ABOUT THE AUTHOR:** Dr. Gurcharan Singh Joint Director (Retd.) Directorate of Technical Education Rajasthan, Jodhpur **BOOK DETAILS:** ISBN : 978-81-89401-21-4 Pages: 933 + 26 Edition: 17th, Year-2019 Size(cms): L-23.7, B-15.8, H-3.7 For more Offers visit our Website:

www.standardbookhouse.com * Text developed to meet the needs of engineering students in industries where turbo-machines are used. * Close correlation between the design and dynamics disciplines maintained throughout the text. * Example problems given at the end of each chapter. The book aims at presenting the topics of Bridge Engineering expressed in simple and lucid language. The presentation is comprehensive and methodical as well as interesting and easy to follow. In this text-book, all the technical aspects and elementary principles about Construction of Structures and Management of Works have been discussed in a lucid manner and easy-to-follow style. It is characterised by the clear, methodical and step-by-step treatment of the subject. The text of the third edition has been revised and updated. Each chapter describes the outline of a particular aspect of Construction Industry. The book in its present form introduces detailed descriptions and illustrative solved problems in the fields of Water Supply, Sanitary and Environmental Engineering. The entire subject matter has been split up in three parts: Part I Water Supply Engineering Part II Sanitary Engineering Part III Environmental Engineering. The first part deals with Water Supply

Engineering which is related to demand of water for various purposes in human life, sources of water supply, quantity and quality of water, treatment and distribution of water, etc. The second part deals with Sanitary Engineering which is related to quality and quantity of sewage, construction and design of sewers, methods of treatment of sewage, etc. The third part discusses various aspects of Environmental Engineering including air pollution, noise pollution, etc. A typical design of a domestic sewage treatment plant is given in the Appendix as an additional attraction. The book now contains: * 253 * 140 * 60 * 610 Self-explanatory and neat diagrams Illustrative problems Useful tables Questions at the end of chapters. It is hoped that the book in its present form will be extremely useful to the Engineering students preparing for the Degree Examinations in Civil Engineering of all the Indian Universities, Diploma Examinations conducted by various Boards of Technical Education, Certificate Courses as well as for A.M.I.E., U.P.S.C., other similar Competitive and Professional Examinations. This Book Primarily Written To Meet The Needs Of Practicing Engineers In A Large Variety Of Industries Where Reciprocating Machines Are Used, Although All Of The Material Is Suitable For College Undergraduate Level Design Engineering Courses. It Is Expected That The Reader Is Familiar With Basic To Medium Level Calculus Offered At The College Undergraduate Level. The First Chapter Of The Book Deals With Classical Vibration Theory, Starting With A Single Degree Of Freedom System, To Develop Concepts Of Damping, Response And Unbalance. The Second Chapter Deals With Types And Classification Of Reciprocating Machines, While The Third Chapter Discusses Detail-Design Aspects Of Machine Components. The Fourth Chapter Introduces The Dynamics Of Slider And Cranks Mechanism, And Provides Explanation Of The Purpose And Motion Of Various Components. The Fifth Chapter Looks Into Dynamic Forces Created In The System, And Methods To Balance Gas Pressure And Inertia Loads. The Sixth Chapter Explains The Torsional Vibration Theory And Looks

At The Different Variables Associated With It. Chapter Seven Analyzes Flexural Vibrations And Lateral Critical Speed Concepts, Together With Journal Bearings And Their Impact On A Rotating System. Advanced Analytical Techniques To Determine Dynamic Characteristics Of All Major Components Of Reciprocating Machinery Are Presented In Chapter Eight. Methods To Mitigate Torsional Vibrations In A Crankshaft Using Absorbers Are Analyzed In Close Detail. Various Mechanisms Of Flexural Excitation Sources And Their Response On A Rotor-Bearing System Are Explored. Stability Of A Rotor And Different Destabilizing Mechanisms Are Also Included In This Chapter. Techniques In Vibration Measurement And Balancing Of Reciprocating And Rotating Systems Are Presented In Chapter Nine. Chapter Ten Looks At Computational Fluid Dynamics Aspects Of Flow Through Intake And Exhaust Manifolds, As Well As Fluid Flow Induced Component Vibrations. Chapter Eleven Extends This Discussion To Pressure Pulsations In Piping Attached To Reciprocating Pumps And Compressors. Chapter Twelve Considers The Interaction Between The Structural Dynamics Of Components And Noise, Together With Methods To Improve Sound Quality. Optimized Design Of Components Of Reciprocating Machinery For Specified Parameters And Set Target Values Is Investigated At Length In Chapter Thirteen. Practicing Engineers Interested In Applying The Theoretical Model To Their Own Operating System Will Find Case Histories Shown In Chapter Fourteen Useful. A look at the methods and algorithms used to predict protein structure A thorough knowledge of the function and structure of proteins is critical for the advancement of biology and the life sciences as well as the development of better drugs, higher-yield crops, and even synthetic bio-fuels. To that end, this reference sheds light on the methods used for protein structure prediction and reveals the key applications of modeled structures. This indispensable book covers the applications of modeled protein structures and unravels the relationship between pure sequence information and three-dimensional structure, which continues to

be one of the greatest challenges in molecular biology. With this resource, readers will find an all-encompassing examination of the problems, methods, tools, servers, databases, and applications of protein structure prediction and they will acquire unique insight into the future applications of the modeled protein structures. The book begins with a thorough introduction to the protein structure prediction problem and is divided into four themes: a background on structure prediction, the prediction of structural elements, tertiary structure prediction, and functional insights. Within those four sections, the following topics are covered: Databases and resources that are commonly used for protein structure prediction The structure prediction flagship assessment (CASP) and the protein structure initiative (PSI) Definitions of recurring substructures and the computational approaches used for solving sequence problems Difficulties with contact map prediction and how sophisticated machine learning methods can solve those problems Structure prediction methods that rely on homology modeling, threading, and fragment assembly Hybrid methods that achieve high-resolution protein structures Parts of the protein structure that may be conserved and used to interact with other biomolecules How the loop prediction problem can be used for refinement of the modeled structures The computational model that detects the differences between protein structure and its modeled mutant Whether working in the field of bioinformatics or molecular biology research or taking courses in protein modeling, readers will find the content in this book invaluable.

Explosion Dynamics Structured and comprehensive introductory guide to understanding and applying explosion dynamics concepts Explosion Dynamics thoroughly explores the physical phenomena of explosions and enables readers to understand controlling variables that govern temperature, pressure, and rate of increase in pressure respectively, while also providing a mathematical framework for characterizing and applying key concepts. To promote seamless reader comprehension, this comprehensive textbook provides working examples, case studies, and assignments for self-study, as well as

additional material such as property data for common gases and dusts, which supports the examples presented throughout the text. Written by two highly qualified authors, topics covered in Explosion Dynamics include: Similitude theory, similarity solutions, nonlinear systems of differential equations, gas dynamics, and chemical kinetics How a flammable mixture of gas or vapor or a suspension of powder, dust particles, or droplets forms in the industrial processing of hazardous materials Range of temperature, pressure, and concentration in which a flame can ignite and propagate How the “ rate-of-pressure-rise ” affects the overall explosion hazard and the viability of various explosion protection measures Providing a structured and comprehensive approach to the subject, Explosion Dynamics is an indispensable textbook that allows chemistry and engineering students, along with professional engineers and professionals in the chemical and food industries, to understand the fundamental mathematics and physics involved in explosions and develop appropriate protection and prevention measures. This well-known text-book now in its Nineteenth Edition, provides an up-to-date account of the basic principles on various functions and working of Railways. Its excellent material fills a significant void in the literature of Railway Engineering. For junior-level courses on Civil Engineering Materials, Construction Materials, Materials of Construction, and Materials of Architecture in departments of Civil Engineering, Construction Engineering, Architecture, Engineering Technology, and Agricultural Engineering. This book deals with properties, applications and analysis of important materials of construction/civil engineering. It offers full coverage of how materials are made or obtained, their physical properties, their mechanical properties, how they are used in construction, how they are tested in the lab, and their strength characteristics--information that is essential for material selection and elementary design. This well-known text-book provides an up-to-date account of the basic knowledge of all types of Building Materials or Materials of Construction. Topics of material science are also

incorporated to improve the utility of the book. It is characterised by the clear, methodical and also step-by-step treatment of the subject. The presentation is comprehensive and easy-to-follow. This text-book deals with the design methods of construction, planning, alignment and maintenance of all types of highways; and various other topics such as traffic management, road making machineries, drainage, arboriculture and lighting, highway economics, etc. connected with the subject of Highway Engineering. This edition is thoroughly revised, enlarged completely updated with plenty of new matter, examples and drawings. This well-known and comprehensive text-book, now in its Twenty-Fifth Edition presents in lucid language the complete and full details of the various complicated topics on the subject of Building Construction. The entire subject-matter of this acclaimed book has been split up in two parts: * Elementary Building Construction * Advanced Building Construction. It is characterised by the clear, methodical and also step-by-step treatment of the subject, and written in a highly readable style. The SI units have been used throughout the book. This comprehensive text details the design, development, and operation of turbo-machinery. Starting with the fundamentals of thermodynamics and advancing to the latest trends in the development and production of turbo-machines, the author provides in-depth methods for analyzing new design procedures and maximizing their structural integrity and operating efficiency. Covers airport planning and design. The third edition of this well-accepted textbook continues in its tradition of presenting the applications of principles, with the addition of a new chapter ""Double Integration Method"" for a complete treatment on ""Analysis of Determinate Structures"". This new chapter will make the reader understand the development of deflection analysis. This book caters to the needs of the student who enters the portals of Civil Engineering Department in the second year of UG programs. It will also be useful to understand the basic principles of structural analysis, energy principles, concepts of loads, arches, bridges, beams, analysis of statically determinate structures, and

importance of influence line diagrams in analyzing problems on indeterminate beams. Moreover, the book can aid solving of basic structural engineering problems in an easy-to-follow and simple manner, avoiding unnecessary mathematical gymnastics and, instead, emphasizing on the engineering applications. The book takes an outcome-based learning approach, where the authors ensure that the students engage well with the contents of each chapter and the expected learning outcomes are achieved by them. Realizing the importance for a systematic approach to problem solving, Bloom's Taxonomy has been applied while designing the contents of the book, so that the students systematically learn to remember, understand, analyze, apply, evaluate and create learning. A large number of practical problems from various university and competitive examinations, presented in the book, will help students get a feel of the problems encountered in the real world. These will also help them during taking their own examinations. Updated chapters and inclusion of a new "Double Integration Method" extends the scope of the book, making it suitable to postgraduate level courses as well. Every topic is illustrated with a large number of worked out numerical examples. Contains problems from university and competitive examinations. Provides exercises in every chapter in an orderly way for self-study. An attempt has been made by the authors in this book to explain the general principles of the subject of Town Planning. The subject matter is expressed in a simple language and practical manner. The treatment is clear, methodical as well as interesting and easy to follow. About the Book: **STRUCTURAL DYNAMICS OF TURBO-MACHINES** presents a detailed and comprehensive treatment of structural vibration evaluation of turbo-machines. Starting with the fundamentals of the theory of vibration as related to various aspects of rotating machines, the dynamic analysis procedures of a broad spectrum of turbo-machines is covered. An in-depth procedure for analyzing the torsional and flexural oscillations of the components and of the rotor-bearing system is presented. The latest trends in design and analysis are

presented, chief among them: Blade and coupled disk-blade mod. An attempt has been made by the authors in this treatise to explain in simple language the basic principles of Valuation of Real Properties. The subject matter of this edition has been thoroughly verified, revised and enlarged in 19 chapters. Appendix I deals with 32 important judgements and decisions pertaining to the subject. Appendix II contains 8 useful Valuation Tables. This revised edition contains 125 typical solved problems and more than 200 questions at the end of all the chapters. The subject of valuation has attained a high degree of importance at present and it is now accommodated in the syllabi of most of the Universities and Institutions. The subject matter is characterized by the clear, methodical and also step-by-step treatment. The presentation is comprehensive and easy-to-follow. It is hoped that the book in the present form would satisfy the need of the student community and also serve as the most useful reference book for practising valuers of real estates, tax consultants, lawyers, advocates, etc. This book aims at presenting the topics of Airport Engineering written in a simple manner. The subject-matter is characterized by comprehension as well as methodical and easy-to-follow style. This text on building materials includes discussion of structural clay products, rocks and stones, wood, materials for making concrete, ferrous and non-ferrous metals, and miscellaneous materials.

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